

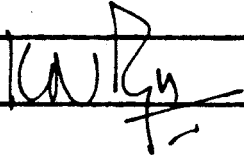


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Documentation Sheet

Document Classification

RESTRICTED

Title	: Development of integrated database management and expert system for selection of materials to meet durability and damage tolerance requirements	Document No. PD ST 9109
Author(s)	: K.N. Raju	Date of issue: Jan.91
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Abstract	: This report summarises the progress made in this project. A simplified approach for fatigue analysis for notched members using local stress strain history as the basis for damage calculation is described. An attempt is made to derive a parameter involving material fatigue crack growth properties to denote as an index of fatigue strength of the material for a specified crack growth life and initial crack size.	